

CLAIMS

1. Adjustable aspect ratio optics, comprising:

a first scanning optical element;

5 a second scanning optical element to receive light from the first scanning optical element; and

wherein at least one of the first scanning optical element and the second scanning optical element is configured to allow adjustment of an aspect ratio associated with sweeps of the first and second scanning optical elements.

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2. The optics of claim 1, wherein the first and second scanning optical elements are refractive optics, respectively.

3. The optics of claim 1, wherein the first and second scanning
15 optical elements are first and second mirrors, respectively.

4. The optics of claim 3, additionally comprising:
system electronics to determine an aspect ratio of image data and to
perform the adjustment of the aspect ratio associated with the sweeps of the
20 first and second mirrors.

5. The optics of claim 3, wherein at least one of the first and second mirrors is a polygonal mirror.

25 6. The optics of claim 3, wherein at least one of the first and second mirrors adjusts by altering a number of facets used to reflect light.

7. The optics of claim 3, wherein one of the first and second mirrors is a galvanometric mirror.

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8. The optics of claim 3, additionally comprising:

a mirror mover, attached to at least one mirror, to move the attached mirror between first and second positions corresponding to first and second aspect ratios, respectively.

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9. The optics of claim 3, wherein the adjustment replaces at least one of the first and second mirrors with another mirror.

10. The optics of claim 3, wherein the adjustment configures the first mirror associated with a first sweep and the second mirror associated with a second sweep to form an aspect ratio consistent with a desired aspect ratio.

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11. The optics of claim 3, wherein the at least one mirror is slid axially to result in a shift between usage of first and second polygonal mirrors.

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12. A projection system, comprising:

a light source;

a first mirror to reflect light from the light source;

a second mirror to receive light reflected from the first mirror;

a system controller to detect an aspect ratio associated with data to be projected, and to make an adjustment of at least one of the first and second mirrors in response to the detected aspect ratio.

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13. The system of claim 12, wherein the adjustment alters a number of facets used to reflect light by a polygonal mirror portion of the first or second mirror.

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14. The system of claim 12, additionally comprising:

a mirror mover, attached to at least one of the first and second mirrors, to move the attached mirror between first and second positions in response to the detected aspect ratio.

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15. The system of claim 12, wherein one of the first and second mirrors is a galvanometric mirror.

16. The system of claim 12, wherein the adjustment replaces at least one of the first and second mirrors with another mirror.

17. The system of claim 12, wherein at least one of the first and second mirrors is a polygonal mirror having first and second polygons, wherein the first and second polygons have different numbers of facets.

18. The system of claim 12, wherein the at least one mirror is slid axially to result in a shift between first and second polygonal mirrors.

19. The optics of claim 12, wherein the adjustment configures a first sweep associated with the first mirror and a second sweep associated with the second mirror to form a ratio consistent with a desired aspect ratio.

20. The optics of claim 12, wherein the at least one mirror is moved between first and second locations by a mirror mover.

21. A processor-readable medium comprising processor-executable instructions for:

examining image data to determine an aspect ratio associated with image data; and

adjusting a degree of sweep made by mirrors within aspect ratio optics in response to the detected aspect ratio.

22. A processor-readable medium as recited in claim 21, comprising further instructions for:

projecting an image according to the image data using the adjusted aspect ratio optics.

23. A processor-readable medium as recited in claim 21, wherein adjusting the degree of sweep includes instructions for:

moving a polygonal mirror to locate a desired number of facets within a light path.

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24. A processor-readable medium as recited in claim 21, wherein adjusting the degree of sweep includes instructions for:

sliding a mirror, within the aspect ratio optics, axially to result in a shift between first and second polygonal mirrors.

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25. A processor-readable medium as recited in claim 21, wherein adjusting the degree of sweep includes instructions for:

varying a number of facets associated with a polygonal mirror within the aspect ratio optics.

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26. A processor-readable medium as recited in claim 21, wherein adjusting the degree of sweep includes instructions for:

selecting between polygonal mirrors to obtain a sweep resulting in a desired aspect ratio.

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27. A processor-readable medium as recited in claim 21, wherein adjusting the degree of sweep includes instructions for:

adjusting a galvanometric mirror to result in an adjusted angle of sweep.

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28. A projection system, comprising:

means for detecting an aspect ratio associated with image data; and

means for adjusting aspect ratio optics in response to the detected aspect ratio.

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29. The projection system of claim 28, additionally comprising:

means for projecting an image according to the image data using the adjusted aspect ratio optics.

30. The projection system of claim 28, additionally comprising:
means for moving a polygonal mirror in response to the detected
aspect ratio to locate a desired number of facets within a light path.

5 31. The projection system of claim 28, additionally comprising:
means for sliding a mirror axially, within the aspect ratio optics, to result
in a shift between first and second polygonal mirrors.

10 32. The projection system of claim 28, additionally comprising:
means for adjusting a sweep associated with a mirror within the aspect
ratio optics.

15 33. The projection system of claim 28, additionally comprising:
means for selecting between polygonal mirrors to obtain a sweep
resulting in a desired aspect ratio.

20 34. The projection system of claim 28, additionally comprising:
means for adjusting a galvanometric mirror to select a desired angle of
sweep.